

AMENDMENTS TO THE CLAIMS

Claims 1-12 (Canceled)

13. (Previously presented) A ceramic infrared sensor, having a lens body, comprising ceramic, a supporting part, which supports said lens body, and a detection part, which detects the light that has been transmitted through said lens body, and wherein a pigment that shields visible light is contained in said lens body, said pigment in the lens body in a range of 0.001 to 1 mass %.

14. (Previously presented) A ceramic infrared sensor, having a lens body, which is comprised of a ceramic part and a resin layer that covers at least the light receiving surface of the ceramic part, a supporting part, which supports said lens body, and a detection part, which detects the light that has been transmitted through said lens body, and wherein a pigment that shields visible light is contained in the ceramic part and/or resin layer of said lens body, said pigment in the lens body in a range of 0.05 to 2 mass %.

15. (Previously presented) A ceramic infrared sensor as set forth in claim 13, wherein the linear transmittance of light of 8 to 12 μm wavelength of said lens body is 50% or more.

16. (Previously presented) A ceramic infrared sensor as set forth in claim 15, wherein the main component of said ceramic is zinc sulfide (ZnS).

17. (Previously presented) A ceramic infrared sensor as set forth in claim 14, wherein the linear transmittance of light of 8 to 12 μm wavelength of said lens body is 50% or more.

18. (Previously presented) A ceramic infrared sensor as set forth in claim 17, wherein the main component of said ceramic is zinc sulfide (ZnS).

19. (Previously presented) A ceramic infrared sensor as set forth in claim 13, wherein the linear transmittance of light of 3 to 5 μm wavelength of said lens body is 50% or more.

20. (Previously presented) A ceramic infrared sensor as set forth in claim 19, wherein the main component of said ceramic is spinel (MgAl_2O_4).

21. (Previously presented) A ceramic infrared sensor as set forth in claim 14, wherein the linear transmittance of light of 3 to 5 μm wavelength of said lens body is 50% or more.

22. (Previously presented) A ceramic infrared sensor as set forth in claim 21, wherein the main component of said ceramic is spinel (MgAl_2O_4).

23. (Previously presented) A ceramic infrared sensor as set forth in claim 13, wherein said supporting part is comprised of resin.

24. (Previously presented) A ceramic infrared sensor as set forth in claim 23, wherein said supporting part is made integral with said resin.

25. (Previously presented) A ceramic infrared sensor as set forth in claim 23, wherein the main component of said resin is polyethylene.

26. (Previously presented) (Previously presented) A ceramic infrared sensor as set forth in claim 24, wherein the main component of said resin is polyethylene.

27. (Previously presented) A ceramic infrared sensor as set forth in claim 25, wherein the said polyethylene is high-density polyethylene.

28. (Previously presented) A ceramic infrared sensor as set forth in claim 14, wherein said supporting part is comprised of resin.

29. (Previously presented) A ceramic infrared sensor as set forth in claim 28, wherein said supporting part comprised of resin is made integral with said resin layer that covers at least the light receiving surface of the ceramic part.

30. (Previously presented) A ceramic infrared sensor as set forth in claim 28, wherein the main component of said resin is polyethylene.

31. (Previously presented) A ceramic infrared sensor as set forth in claim 30, wherein the said polyethylene is high-density polyethylene.

32. (Previously presented) A ceramic infrared sensor as set forth in claim 29, wherein the main component of said resin is polyethylene.

33. (Previously presented) A ceramic infrared sensor as set forth in claim 32, wherein the said polyethylene is high-density polyethylene.

34. (Previously presented) A ceramic infrared sensor as set forth in claim 13, wherein said supporting part is comprised of metal.

35. (Previously presented) A ceramic infrared sensor as set forth in claim 13, wherein said supporting part includes a cylindrical part, which is formed between the portion of said lens body that transmits light and said detection part.

36. (Previously presented) A ceramic infrared sensor as set forth in claim 35, wherein said cylindrical part is comprised of resin.

37. (Previously presented) A ceramic infrared sensor as set forth in claim 36, wherein the main component of said resin is polyethylene.

38. (Previously presented) A ceramic infrared sensor as set forth in claim 14, wherein said supporting part includes a cylindrical part, which is formed between the portion of said lens body that transmits light and said detection part.

39. (Previously presented) A ceramic infrared sensor as set forth in claim 38, wherein said cylindrical part is comprised of resin.

40. (Previously presented) A ceramic infrared sensor as set forth in claim 39, wherein said cylindrical part is made integral with said supporting part and said resin layer.

41. (Previously presented) A ceramic infrared sensor as set forth in claim 40, wherein the main component of said resin is polyethylene.

42. (Previously presented) A ceramic infrared sensor as set forth in claim 41, wherein the said polyethylene is high-density polyethylene.

43. (Canceled)

44. (Canceled)

45. (New) A ceramic infrared sensor as set forth in claim 13, wherein the average particle diameter of said pigment in the lens body is in a range of 0.01 to 2 μm .

46.* (New) A ceramic infrared sensor as set forth in claim 13, wherein the degree of dispersion R of the said pigment in the lens body is less than or equal to 10%.

47. (New) A ceramic infrared sensor as set forth in claim 13, wherein the value of the ratio T_i/T_v of the lens body is greater than or equal to 5.

48. (New) A ceramic infrared sensor as set forth in claim 13, wherein the value of the ratio T_i/T_v of the lens body is greater than 150.

49. (New) A ceramic infrared sensor as set forth in claim 48, wherein the infrared light transmittance T_i of the lens body is greater than or equal to 40%.

50. (New) A ceramic infrared sensor as set forth in claim 49, wherein the degree of dispersion R of the said pigment in the lens body is less than or equal to 10%.

51. (New) A ceramic infrared sensor as set forth in claim 14, wherein the average particle diameter of said pigment in the lens body is in a range of 0.01 to 2 μm .

52. (New) A ceramic infrared sensor as set forth in claim 14, wherein the total added amount of said pigments in the ceramic part and/or resin layer is in a range of 0.05 to 2 wt%.

53. (New) A ceramic infrared sensor as set forth in claim 52, wherein the ratio of added amounts of said pigments B/A in the resin layer is in a range of 0.1 to 15.

54. (New) A ceramic infrared sensor as set forth in claim 14, wherein the value of the ratio T_i/T_v of the lens body is greater than or equal to 15.

55. (New) A ceramic infrared sensor as set forth in claim 14, wherein the value of the ratio T_i/T_v of the lens body is greater than 150.

56. (New) A ceramic infrared sensor as set forth in claim 55, wherein the infrared light transmittance T_i of the lens body is greater than or equal to 40%.